

VINBERG, G.G.; LESHINA, A.V.; VASIL'YEVA, V.

Materials on primary production of plankton in ponds of the "Volma"  
Fish Farm. Trudy Biol. sta. na oz. Haroch' no.1:23-36 '58.  
(MIRA 12:7)

(Minsk Province--Fish ponds)  
(Plankton)

VASIL'YEVA, V., inah.

Electron tubes. Radio no. 8:42-44 Ag '62.  
(Electron tubes)

(MIRA 15:8)

POGOBELOV, G.; TROITSKIY, N.; IVANKENKO, I.; VASIL'YEVA, V.; VIKHROV, P.

Old shortcomings in the new equipment. Okhr.truda i sots.  
atrakh. no.12:29-30 D '59. (MIRA 13:4)

1. Tekhnicheskiye inspektora Moskovskogo oblastnogo soveta  
profsoyuzov.  
(Moscow--Textile industry--Hygienic aspects)

V. V. V.

Africa - Social Conditions

Nations of Africa in fight for peace and freedom. Vop. ekon. No. 1, Ja '52.

Monthly List of Russian Accessions, Library of Congress, March 1952. Unclassified.

VASIL'YEVA, V.

Decline of the imperialistic colonial system. Vop.skon. no.4;  
102-117 Ap '56. (MLBA 9:8)  
(Colonies)

VASIL'YEVA, V.

"Peoples of Africa." Reviewed by V.Vasil'eva. Vop.ekon.no.1:140-143  
'57. (MLRA 10:3)

(Africa--Native races)

1. VASIL'YEV, V.
2. USSR (600)
4. Red Cross - Vladivostok
7. The best in Vladivostok, Sov. kras. krest. 3, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

YASIL'YEVA, V.  
DRUYAN, Ya., kandidat ekonomicheskikh nauk; SUKHOTIN, M.; VASIL'YEVA, V.

Organizing freight haulage along the most effective routes. Avt.  
transp. 35 no.8:8-9 Ag '57. (MIRA 10:9)

1. Leningradskiy filial Nauchno-issledovatel'skogo instituta  
avtomobil'nogo transporta i Leningradskiy trest tsentralisovannyykh perevozok.

(Transportation, Automotive)



GROSSMAN, L.; VASIL'YEVA, V.

Production index and method of distributing the production among  
shifts in copper smelting plants. Sots. trud 5 no.9:135-136 3  
'60. (MIRA 13:10)

1. Ural'skiy nauchno-issledovatel'skiy i proyektnyy institut  
mednoy promyshlennosti.  
(Ural Mountain Region—Copper industry)

TSYGANOVA, L., inzh.; VASIL'YEVA, V., inzh.

Electron tubes. Radio no.7:30-35 JI '62. (MIRA 16:6)

(Electron tubes)

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QP QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UU UV UW UX UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WU WV WW WX WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YY YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ																									
<p>1. TITLE AND SUB-TITLE</p> <p>2. AUTHOR</p> <p>3. AUTHOR'S ORGANIZATION</p> <p>4. PERIODICAL</p> <p>5. JOURNAL</p> <p>6. VOLUME</p> <p>7. NUMBER</p> <p>8. DATE</p> <p>9. PAGE</p> <p>10. ABSTRACT</p> <p>11. SUMMARY</p> <p>12. REFERENCES</p> <p>13. NOTES</p> <p>14. INDEXING</p> <p>15. CLASSIFICATION</p> <p>16. METALLURGICAL LITERATURE CLASSIFICATION</p> <p>17. METALLURGICAL LITERATURE CLASSIFICATION</p> <p>18. METALLURGICAL LITERATURE CLASSIFICATION</p> <p>19. METALLURGICAL LITERATURE CLASSIFICATION</p> <p>20. METALLURGICAL LITERATURE CLASSIFICATION</p> <p>21. METALLURGICAL LITERATURE CLASSIFICATION</p> <p>22. METALLURGICAL LITERATURE CLASSIFICATION</p> <p>23. METALLURGICAL LITERATURE CLASSIFICATION</p> <p>24. METALLURGICAL LITERATURE CLASSIFICATION</p> <p>25. METALLURGICAL LITERATURE CLASSIFICATION</p> <p>26. METALLURGICAL LITERATURE CLASSIFICATION</p>																									

<p>CA</p> <p>112</p>	
<p><b>PROCESSING AND PROPERTIES DATA</b></p> <p>The effect of carotene on the growth of abdominal typhus bacteria. V. A. Vasil'yev. <i>Z. Mikrobiol., Epidemiol. Immunobiol.</i> (U. S. S. R.) 1941, No. 9, 27-8.—The</p>	
<p>object of the expts. was to det. the stimulating effect of carotene on the growth of bacteria. The growth of abdominal typhus bacteria was investigated on ordinary broth, on broth with bile, on agar-agar and on a synthetic medium with tryptophan and asparagine after the addn. of carrot carotene to the media. Cryst. carotene was prepd according to the method of Kushko. Five-cc. portions of the carotene solns. in nutritive media were placed in test tubes and the test tubes inoculated with 10 bacterial cells of the microbe under investigation. Parallel control expts. were made. Preliminary expts. indicated that high concns. of carotene (50 mg. %) suppress the growth of microbes. Low concns. of carotene (10<sup>-4</sup> - 10<sup>-6</sup>) had a stimulating effect on the growth. In synthetic media the optimum stimulating dose (15 x 10<sup>-4</sup>) produced a 75% increase after 24 hrs. In 100% bile, carotene had either no effect or its effect was very small. Similar results were obtained on inoculating citrate blood on broth with bile for the purpose of obtaining the hemoculture of the organism. Carotene can be used as a stimulating agent for the growth of abdominal typhus organisms for practical purposes. It accelerates the diagnosis of the disease, increases the yield of the bacterial mass in the production of vaccines, etc.</p> <p style="text-align: right;">W. R. Henn</p>	
<p>ADD-514 METALLURGICAL LITERATURE CLASSIFICATION</p>	
<p>FROM STUDENT</p>	<p>FROM DONOR</p>
<p>SEARCHED</p>	<p>COLLATION</p>
<p>INDEXED</p>	<p>FILED</p>

DORTMAN, Nina Borisovna; VASIL'YEVA, Valentina  
Ivanovna; VLYNDELIG, A. K.; GUB. K. M.; L. Ya.; L. V.;  
ZOTOVA, I. P.; IL'YEV, M. G.; TRUBINA, V. Ya.; KHOROVA, B. Ya.;  
SHOLOPO, L. Ya.; G. PETEVA, G. M.; red.; KLEMYKOVA, I. A.,  
ved. red.

[Physical properties of rocks and minerals in the U.S.S.R.]  
Fizicheskie svoystva gornykh porod i poleznykh iskopnykh  
SSSR. Moskva, Nedra, 1962. 325 p. (MIRA 1811)

1. Leningrad. Vsesoyuznyy geologicheskii institut.

VASIL'YEVA, V.A. (Leningrad, Lesnoy pro., 37, kv.463)

Polysaccharides in the epithelium of the cornea and mucous  
membrane of the eye in embryogenesis. Arkh. anat. gist. i  
embr. 41 no.12:30-33 D '61. (MIRA 15:3)

1. Kafedra gistologii i embriologii (zav. - prof. N.I. Grigor'yev)  
Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.  
(POLYSACCHARIDES) (CORNEA)  
(EYE) (EPITHELIUM)

TSIRLIN, Yu.A.; VASIL'YEVA, V.A. .

Vapor-liquid equilibrium in the binary mixture water-acetic acid  
in case of increased pressure. Gidroliz.i lesokhim.prom. 15  
no.6:11-13 '62. (MIRA 15:9)

1. Nauchno-issledovatel'skiy institut gidroliznoy i  
sul'fitnospirtovoy promyshlennosti.

(Vapor-liquid equilibrium)

VASIL'YEVA, V.A.

Reactivity of the corneal epithelium in superficial injury. Trudy  
ISGMI 16:116-129 '5). (MIRA 10:8)

1. Kafedra gistologii i embriologii Leningradskogo sanitarno-  
gigiyenicheskogo meditsinskogo instituta (zav. kafedroy prof.  
S.I.Shchekunov)

(WOUNDS AND INJURIES, experimental,  
cornea, protective role & reactivity of epithelium in  
superficial inj.)

(EPITHELIUM,  
corneal, protective role & reactivity in exper.superficial  
inj.)

(CORNEA, wounds and injuries,  
exper., protective role & reactivity of epithelium)



VASIL'YEVA, V. A.

Regenerative capacity of a small section of corneal epithelium.  
Tracy LSGMI 16:130-141 '53. (MLRA 10:8)

1. Kafedra gistologii i embriologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy prof. S.I.Shchelkunov)

(CORNEA, physiology,  
    regen. of small sections of rat epithelium)  
(EPITHELIUM,  
    corneal, regen. of small sections)  
(REGENERATION,  
    corneal epithelium, small sections)

VASIL'YEVA, V.A.

Replacement of the corneal epithelium by the conjunctival epithelium in experimental conditions. Trudy LSGMI 16:142-150 '53. (MIRA 10:8)

1. Kafedra gistologii i embriologii Leningradskogo sanitarnogigiyenicheskogo meditsinskogo instituta (nav. kafedroy prof. S.I.Shchelkunov)

(EPITHELIUM,

corneal, eff. of excis. on growth of conjunctival epithelium into damage areas)

(CONJUNCTIVA, physiology,

eff. of excis. of corneal epithelium on growth of conjunctival epithelium into damaged areas)

(REGENERATION,

conjunctival epithelium, growth into damaged areas after excis. of corneal epithelium)

(CORNEA, physiology,

eff. of excis. of epithelium on growth of conjunctival epithelium into damaged areas)

VASIL'YEVA, V.A.

Certain characteristics of growth of the corneal epithelium.  
Arkh. anat. gist. 1 embr. 32 no.2:20-26 Ap-Je '55. (MLRA 9:1)

1. Iz kafedry gistologii (zav.-chlen.-korr. AMN SSSR prof. S.I. Shchalkunov ) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

(CORNEA, anatomy and histology,  
epithelium, growth)

VASIL'YEV, V.A.

Development of human corneal epithelium in embryogenesis [with  
summary in English]. Arkh.anat.gist. i embr. 34 no.6:59-63 N-D '57.  
(MIRA 11:3)

1. Kafedra gistologii s embriologiyey (zav.-chlen-korrespondent  
AMN SSSR prof. S.I.Shchekunov) Leningradskogo sanitarno-gigiyenicheskogo  
meditsinskogo instituta. Adres avtora: Leningrad, Leningradskiy  
sanitarno-gigiyenicheskiy institut, kafedra gistologii.

(CORNEA, embryol.

epithelial develop., histol.)

(EPITHELIUM, embryol.

corneal, histol.)

ROZINA, G.Yu.; ZARZHEVSKIY, M.Ya.; VASIL'YEVA, V.A.

Ways to improve the working conditions in the production of  
silicon rubber. Kauch. i rez. 24 no.2:38-39 F '65.

(MIRA 18:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gigiyeny  
truda i professional'nykh zabolevaniy, Leningrad.

VASIL'YEVA, V.A. (Leningrad, K-100, Lesnoy prospekt, 37, kv.463)

Some histochemical changes in the epithelium of the cornea and  
conjunctiva of the human eye during embryogenesis. Arkh. anat.,  
gist. i embr. 44 no.6:62-66 Je '63. (MIRA 17:7)

1. Kafedra gistologii i embriologii (zav. - prof. N.I. Grigor'yev)  
Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

SHCHELKUNOV, S. I.; VASIL'YEVA, V. A.; GRENBERG, T. F.

"Ob osobennostyakh embriogeneza cheloveka."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences,  
Moscow, 3-10 Aug 64.

PUGIN, A.I., kand.tekhn.nauk; VASIL'YEVA, V.A., kand.tekhn.nauk

Heating of disk billets for rolling spherical bottoms of tanks. Vest.  
mashinostr. 43 no.11:70-74 N '63. (MIRA 17'2)



TOROPOV, N.A.; VASIL'YEVA, V.A.

Phase relations in the system scandium oxide - aluminum oxide.  
Dokl. AN SSSR 152 no.6:1379-1382 0 '63. (MIRA 16:11)

1. Institut khimii silikatov AN SSSR. 2. Chlen-korrespondent  
AN SSSR (for Toropov).

TOROPOV, N.A.; VASIL'YEVA V.A.

Phase diagram of the binary system scandium oxide - silica.  
Zhur. neorg. khim. 7 no.8:1938-1945 Ag '62. (MIRA 16:6)

(Scandium oxide) (Silica)

TSEFT, A.L.; TARASKIN, D.A.; YERMILOV, V.V.; TKACHENKO, O.B.;  
VASIL'YEVA, V.A.; SUSHCHENKO, S.N.; DUKHANKINA, L.S.

Hydrometallurgical treatment of copper matte. Trudy Inst.  
met. i obog. AN Kazakh. SSR 5:72-76 '62. (MIRA 15:11)  
(Copper—Metallurgy) (Hydrometallurgy)

TOROPOV, N.A.; VASIL'YEVA, V.A.

Synthetic scandium silicates. Kristallografiia 6 no.6:962-  
972 N-D '61. (MIRA 14:12)

1. Institut khimii silikatov AN SSSR.  
(Scandium silicates)  
(Crystallography)

VASIL'YEVA, V.A.

Histogenesis and reactivity of the epithelium of the cornea  
in embryogenesis. Arkh. anat., gist. i embr. 42 no.6:64-70  
Je '62. (MIRA 15:6)

1. Kafedra gistologii i embriologii (zav. - prof. N.I.  
Grigor'yev) Leningradskogo sanitarno-gigiyenicheskogo  
meditsinskogo instituta. Adres avtora: Leningrad, ul.  
Kurakina, 1/3, Leningradskiy sanitarno-gigiyenicheskiy  
meditsinskiy institut.

(CORNEA)  
(EPITHELIUM)

TSIRLIN, Yu.A.; VASIL'YEVA, V.A.; KUZNETSOVA, G.S.

Chemical purification of sewage containing furfurole. Gidroliz.  
i lseokhim. prom. 14 no.7:15-16 '61. (MIRA 14:11)

1. Nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-  
spirtovoy promyshlennosti.  
(Sewage--Purification)  
(Furaldehyde)

VASIL'YEVA, V.A.

Disturbance in the tempo of motor-sensory reactions in patients with cerebrovascular diseases. Trudy Gos. nauchno-issl. inst. psikh. inst. psikh. 22:337-354 '60. (MIRA 15:1)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova, kafedra psikhologii (zav. kafedroy- prof. A.N.Leont'yev) i klinika sosudistyykh psikhozov (zav. klinikoy - prof. V.M.Banshechikov) i psikhologicheskaya laboratoriya (zav. laboratoriyey - kand.biologicheskikh nauk B.V.Zeygarnik) Gosudarstvennogo nauchno-issledovatel'skogo instituta psikiatrii Ministerstva zdravookhraneniya RSFSR.  
(CEREBROVASCULAR DISEASE) (MOVEMENT (PHYSIOLOGY))

TSEFT, A.L.; VASIL'YEVA, V.A.; MILYUTINA, N.A.

Leaching of mixed Dzhezkazgan ores by solutions of sulfuric acid  
containing salts of trivalent iron. Report no.2. Izv.AN Kazakh.  
SSR.Ser.met., obog.i ogneup. no.2:73-84 '64. (MIRA 14:8)  
(Dzhezkazgan—Copper ores) (Leaching)



TSEFT, A.L.; MILYUTINA, N.A.; VASIL'YEVA, V.A.

Leaching of mixed Dzhezkazgan ores by chloride solutions. Izv.  
AN Kazakh.SSR.Ser.met., obog.i ogneup. no.2:64-72 '61.

(MIRA 14:8)

(Dzhezkazgan--Copper ores) (Leaching)

30176

15 2220

S/070/61/006/006/008/008  
E132/E135

AUTHORS: Toropov, N.A., and Vasil'yeva, V.A.

TITLE: Synthetic scandium silicates

PERIODICAL: Kristallografiya, v 6, no.6, 1961, 968-972 + 1 plate

TEXT: Mg and Sc often form isomorphous silicates but the behaviour of the systems scandia/silica and magnesia/silica is quite different. The phase diagram of the  $\text{Sc}_2\text{O}_3/\text{SiO}_2$  system has been mapped (Fig.3). X-ray powder data are given for the compounds  $\text{Sc}_2\text{O}_3 \cdot \text{SiO}_2$ ,  $\text{Sc}_2\text{O}_3$ ,  $2\text{Sc}_2\text{O}_3 \cdot 3\text{SiO}_2$  and  $\text{Sc}_2\text{O}_3 \cdot 2\text{SiO}_2$  which occur. At the high silica end of the composition range two immiscible liquids are found,  $\mathcal{M}_1$  and  $\mathcal{M}_2$ . Refractive indices were measured for the scandium silicates:

$\text{Sc}_2\text{O}(\text{SiO}_4)$ : m.p.  $1950^\circ$ , 2V small, r.i. 1.850, 1.835 +ve.  
 $d_{\text{obs.}} = 3.490$ .

$\text{Sc}_2\text{Si}_2\text{O}_7$ : m.p.  $1860^\circ$ , biaxial -ve. r.i. 1.805, 1.785, 1.754.  
 $d_{\text{obs.}} = 3.390$ . X

Efforts were made to crystallise the compounds studied, but

Card 1/12

Synthetic scandium silicates

30176  
S/070/61/006/006/008/008  
E132/E135

without success. N.V. Belov, V.V. Shcherbina, V.I. Lebedev and F.Ya. Galakhov are mentioned in the article for their contributions in silicate chemistry.

There are 3 figures, 1 table and 8 references: 6 Soviet-bloc and the following two English language references:

Ref.3: J.P. Marbel, J.J. Glass, Amer. Mineralogist, Vol.27(10), 696-698, 1942.

Ref.8: E. Levin, S. Block. J. Amer. Ceram. Soc., Vol.41, 2, 1958.

ASSOCIATION: Institut khimii silikatov  
(Institute for Silicate Chemistry)

SUBMITTED: June 8, 1961

Card 2/2

VASIL'YEVA, V.A. (Leningrad, Lesnoy prospekt 37, kv. 463.)

Formation of the nervous apparatus of the human sclera in  
embryogenesis. Arkh anat. gist i embr. 38 no. 6:12-16 Je '60.  
(MIRA 13:12)

1. Kafedra gistologii i embriologii (zav. - prof. N.I. Grigor'yev)  
Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.  
(SCLERA—INNERVATION)

YAKOVLEV, M.P.; VASIL'YEVA, Y.A.; VIKHROV, P.P.; IVANENKO, I.P.;  
POGORELOV, G.I.; TROITSKIY, N.L.

General inspection of the work organization level in  
factories. Tekst.prom. 20 no.6:51-53 Je '60.  
(MIRA 13:7)

1. Nachal'nik podotdela organizatsii truda Mosoblsovnarkhosa  
(for Yakovlev). 2. Tekhnicheskiy inspektora Moskovskogo  
otdeleniya soveta profsoyuzov pri obkome profsoyuza rabochikh  
tekstil'noy i legkoy promyshlennosti (for all except  
Yakovlev).  
(Moscow Province—Textile factories)

USSR/Microbiology - Microbes Pathogenic for Man and Animals.  
Bacteria. Mycobacteria.

F

Abs Jour : Ref Zhur Biol., No 22, 1958, 99510

Author : Ishunina, T.I., Vasil'yeva, Y.

Inst : Institute of Experimental Medicine of the Academy of  
Sciences, LatvSSR

Title : Effect of Paraaminobenzoic Acid Upon the Immunizing  
Properties of the Vaccine DCG

Orig Pub : Tr. In-ta eksperim. med. AN Latv SSR, 1957, 15, 17-34

Abstract : Guinea pigs were vaccinated subcutaneously with 1 mg  
(10,000,000 microbial bodies)-of dry vaccine DCG.  
Beginning with the 1st day following the vaccination,  
the animals were injected intramuscularly for a period  
of three weeks, daily, with 1 ml of 0.1% solution of  
paraminobenzoic acid (PABA) or Norsulfazol

Card 1/2

- 102 -

USSR/Microbiology - Microbes Pathogenic for Man and Animals.  
Bacteria. Mycobacteria.

F

Abs Jour : Ref Zhur Biol., No 22, 1958, 99510

(0.04 mg in 3 doses, orally, in the form of a suspension in 2 ml of milk). Within 57 days following the vaccination, the experimental and control animals were infected subcutaneously with 1 mg of virulent tubercle bacilli. The animals were killed within 6½ months and the index of tuberculous lesions of the lymphatic nodes and internal organs was established. It was demonstrated that the injection of PABA into the organism of the guinea pigs during the period of vaccination with BCG favors an earlier development of tuberculous allergy and a more intensively manifested intracutaneous tuberculin reaction. A more marked acquired resistance to tuberculosis was observed in these guinea pigs. -- G.Ye. Frankina

Card 2/2

SOV/135-59-10-7/23

18(5)

**AUTHORS:** Rykalin, N.N., Corresponding Member of the AS USSR, Pugin, A.I., and Vasil'yeva, V.A., Candidates of Technical Sciences

**TITLE:** Heating and Cooling Studs During Buttwelding by Friction

**PERIODICAL:** Svarochnoye proizvodstvo, 1959, Nr 10, pp 15-18 (USSR)

**ABSTRACT:** The authors present a study on some regularities of the heating process by friction of round studs with equal diameters during buttwelding. When heating by friction, the heat source is concentrated within a thin layer, fitting close to the end of the friction stud (Fig.1). The specific power  $q_2$  cal/cm<sup>2</sup> sec. in point A (Fig.lv) is equivalent to the rotational power at a given point:  $q_2 = Mfvp$ , (2), where  $M = 2,34 \cdot 10^{-2}$  cal/kgcm, that is the thermic equivalent of mechanical work. The complete thermic rotation power is expressed by the equation:

$$q = \int_0^{d/2} q_2(r) 2\pi r dr = M \frac{\pi^2 n}{15} \int_0^{d/2} f(r)p(r)r^2 dr. \quad (3)$$

Card 1/4



SOV/135-59-10-7/23

# Heating and Cooling Studs During Buttwelding by Friction

For calculation of the heating process, the following assumptions are made: The power of the rotation source,  $q$  cal/sec, is considered as constant during the heating time. The thermophysical coefficients of the material of both studs - heat conductivity  $\lambda$  cal/cm.sec  $^{\circ}\text{C}$ , temperature conductivity  $a$   $\text{cm}^2/\text{sec}$ , and thermal capacity  $c$  cal/cm<sup>3</sup>  $^{\circ}\text{C}$  - are considered as not depending on the temperature, and their mean value within the examined temperature interval. Concerning the influence of surface heat elimination of the studs, these are considered as unlimited in length. The initial temperature is considered as zero (Celsius). The abscissa is put on the axis of the studs so that the sections at the ends form the ordinata. Time  $t$  is counted from the beginning of heating. Then the temperature  $T(x, t)$  of the studs is expressed by a proportion (N.N. Rykalin, Raschety teplovykh protsessov pri svarke (Calculations of Thermal Processes when Welding), Mashgiz, 1951). The integral in this case is expressed by the function

$$\text{ierfc } u = - \int_u^{\infty} \text{erfc } u \, du = \frac{1}{\sqrt{\pi}} \exp(-u^2) - u \text{erfc } u; \text{ decreasing}$$

Card 2/4

SOV/135-59-10-7/23

# Heating and Cooling Studs During Buttwelding by Friction

on the positive axis from the value  $\pi^{-\frac{1}{2}} = 0.5642$  at  $u = 0$  to zero at  $u = \infty$  (Fig.4):

$$T(x,t) = \frac{q_2 \sqrt{t}}{\sqrt{\lambda c \delta}} \operatorname{ierfc} \frac{x}{2\sqrt{at}}. \quad (6)$$

The temperature of the contact section ( $T(0,t)$ ) is expressed by

$$\text{the first factor of equation 6: } T(0,t) = \frac{q_2 \sqrt{t}}{\sqrt{\pi \lambda c \delta}}, \quad (7)$$

The temperature in the state of equalization at the end of heating during the time  $t_k$  is calculated using equation 9:

$$T(x,t) = T(x,t) - T(x,t-t_k); \quad t \geq t_k. \quad (9)$$

For the contact section, the temperature in the process of equalization is expressed by equation 10:

$$T(0,t) = \frac{q_2}{\sqrt{\pi \lambda c \delta}} (\sqrt{t} - \sqrt{t-t_k}); \quad t \geq t_k. \quad (10)$$

Card 3/4

The temperature of the contact sections in the state of heating and in the state of cooling through a low heating temperature  $T_k$

SOV/135-59-10-7/23

# Heating and Cooling Studs During Buttwelding by Friction

and its duration  $t_k$  is expressed with the help of equations 7 and 10 (Fig.8). In the state of heating:  $\frac{T(t)}{T_k} = \sqrt{\frac{t}{t_k}}; t \leq t_k$ . (11)

In the state of cooling:  $\frac{T(t)}{T_k} = \sqrt{\frac{t}{t_k}} - \sqrt{\frac{t}{t_k}} - 1; t \geq t_k$ . (12)

By introduction of the factor  $\theta$  (the proportion between  $T_k$  &  $T_n$ ) equation 15 is given for the speed of cooling  $w^\circ\text{C/sec}$ :

$$w(T) = \frac{T_k}{t_k} \cdot \frac{2\theta^3}{1-\theta^4}, \quad (15), \text{ by equation 13}$$

and 14 (Fig.9). There are 1 diagram and 8 graphs.

ASSOCIATION: Institut metallurgii imeni A.A. Baykova AN SSSR (Metallurgical Institute imeni A.A. Baykov, AS USSR)

Card 4/4

VASIL'YEVA, V.A. (Leningrad, Lesnoy prosp., d.37, kv.463)

Development of neural elements of the cornea in human embryogenesis. Arkh.anat.,gist. i embr. 36 no.6:20-27 Je '59.

(WIRA 12:9)

1. Kafedra gistologii i embriologii (zav. - chlen-korrespondent AMN SSSR prof.S.I.Shchelkunov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

(CORNEA, innervation,  
embryogenesis (Rus))

VASIL'YEVA, V.A.

Coalescence of the central part of the cornea following its partial separation. [with summary in English]. Trudy ISGMI 42:66-78 '58

1. Kafedra gistologii i embriologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - chlen-korrespondent AMN SSSR, prof. S.I. Shehelkunov).

(CORNEA, physiology

coalescence of central part after partial separation (Rus))

VASIL'YEVA, V.S.

Changes in the reactivity of corneal epithelium during transplantation  
[with summary in English]. Trudy ISGMI 42:79-87 '58 (MIRA 11:12)

1. Kafedra gistologii i embriologii Leningradskogo sanitarno-  
gigiyenicheskogo meditsinskogo instituta (sav. kafedroy - ohlen-  
korrespondent AMN SSSR, prof. S.I. Shchelkunov).

(CORNEA-TRANSPLANTATION, experimental  
epithelial reactivity changes in aseptic intra-abdom.  
transpl. (Rus))

VASIL'YEVA, V.A.

~~Development of conjunctival epithelium in man during embryogenesis~~  
[with summary in English]. Trudy LSGMI 42:88-98 '58 (MIRA 11:12)

1. Kafedra gistologii i embriologii Leningradskogo sanitarno-  
gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - chlen  
korrespondent AMN SSSR, prof. S.I. Shchelkunov).

(CONJUNCTIVA, embryology.

epithelial embryogenesis (Rus))

(EMBRYOLOGY, HUMAN)

(EPITHELIUM)

VASIL'YEVA, V.A., kand.biol.nauk

The methylene blue leuco base method of dyeing in the diagnosis of malignant neoplasms. Vopr.klin.lech.zlok. novooobraz., Riga 1:61-63 1953.

(NEOPLASMS, diag.

staining with methylene blue leuco base method

(STAINS AND STAINING

methylene blue leuco base method in diag. of neoplasms



VASIL'YEVA, V.A.,kand.biol.nauk

Diagnosis of cervical cancer by dyeing vaginal smears with methylene blue leuco base. Vopr.klin.lech.zlok.novooobraz., Riga 1:1953

(CERVIX, UTERINE, neoplasms

diag., dyeing vaginal smears with methylene blue leuco base

(VAGINAL SMEARS,

diag. of cervical cancer, dyeing with methylene blue base

(STAINS, AND STAINING

methylene blue leuco base dyeing of vaginal smears in  
diag. of cervical cancer

ONAYEV, I.A.; ABDEYEV, M.A.; YESYUTIN, V.S.; VASIL'YEVA, V.A.

Use of vacuum processes in non-ferrous metallurgy. Vest. AN Kazakh.  
SSR 14 no.1:40-47 Ja '58. (MIRA 11:2)  
(Vacuum metallurgy)

PHASE I BOOK EXPLOITATION

SOV/3285

Akademiya nauk SSSR. Institut metallurgii

Teplovyye protsessy pri kontaktной svarke; sbornik trudov laboratorii svarki metallov (Thermal Processes in Resistance Welding; Collection of Transactions of the Laboratory for the Welding of Metals) Moscow, Izd-vo AN SSSR, 1959. 277 p. Errata slip inserted. 3,000 copies printed.

Ed.: N. N. Rykalin, Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: G. M. Makovskiy; Tech. Ed.: G. A. Astaf'yeva.

PURPOSE: This book may be of interest to engineers and researchers interested in improving the methods and machines used for resistance welding.

COVERAGE: The material is based on work conducted at the welding laboratory of the Institute of Metallurgy, Academy of Sciences, USSR, for the purpose of investigating thermal processes in resistance welding. A number of the papers present some results of theoretical and practical investigation of the butt welding of rods and the welding of crossed rods by the electric resistance method. Spot welding of sheet metal is also mentioned. Measuring and recording procedures are explained and illustrated. The majority of experiments deal with heating, heat distribution, and the flow of current in the welded part. It is

Card 1/6

Thermal Processes in Resistance (Cont.)

SOV/3285

stated that the automation of industrial processes requires improved, specialized, and automated resistance welding processes. No personalities are mentioned. There are references, both Soviet and non-Soviet, at the end of each paper.

TABLE OF CONTENTS:

Introduction	3
N. N. Rykalin. Theory of Electric Resistance Heating of Bars in Butt Welding	6
Introduction	6
1. Basic considerations	7
2. Equation of the heating process	11
3. Resistance heating of welded bars of infinite length	17
4. Resistance heating of the portion of the bar having cold ends	25
5. Resistance heating of several portions of the bar with heat flowing through the end	35

Card 2/ 6

Thermal Processes in Resistance (Cont.)

SOV/3285

6. Resistance heating of bars at a given circuit voltage	45
7. Cooling of butt-welded bars	50
A. I. Pugin. Heating of Bars in Resistance Butt Welding	54
Introduction	54
1. Methods of investigation	55
2. Resistance of the contact zone and heating of the area near the contact	60
3. Calculation of the thermal cycle of the welded joint and the temperature distribution along the length of the bars	93
4. Structure and properties of welded joints	122
Conclusions	132
A. I. Pugin. Intermittent Heating of Large-Diameter Carbon Steel Rods in Resistance Flash Welding	134
Introduction	134
1. Methods of investigation	135
Card 3/6	

Thermal Processes in Resistance (Cont.)

SOV/3285

2. Change of resistivity of carbon steel during heating by industrial-frequency current	137
3. Pre-heating of bars in resistance flash welding	144
4. Calculation of regime parameters and thermal cycle (comparison with experimental data)	163
Conclusions	166
A. V. Glazkov. Heat Propagation During Pulse Butt Welding of Different Metals	168
1. Determination of the amount of heat going into carbide plate and the steel specimen	168
2. Schematics of heat propagation during heating of the pulse welded parts	171
3. Heat propagation during heating of welded parts by pulsating arc	173
4. Process of heat propagation during cooling of a welded joint between carbide and steel	178

Card 4/6

Thermal Processes in Resistance (Cont.)

SOV/3285

S. A. Adasinskiy. Cooling of Spot Welds in Steel Sheets	182
1. Measurement of metal temperature in the zone near the contact during cooling and the amount of heat required in spot welding of sheet metal	182
2. Calculation of metal temperature of the zone near the contact during cooling	197
Conclusions	200
N. N. Rykalin. Distribution of Transverse Current in a Homogeneous Rod	202
1. Stating the problem	202
2. Equation for distribution of potential	203
3. Distribution of current and potential in an infinite cylinder	206
4. Density of current in the center of a bar	211
5. Distribution of plane potential and transverse current in a rod	216
V. A. Vasil'yeva. Heating During Resistance Mash Welding of Rods	223
Introduction	223
1. Methods of measuring and recording welding process parameters	224
2. Compression of the crossed bars in resistance welding	228

Card 5/6

Thermal Processes in Resistance (Cont.)

SOV/3285

- |  |     |
|--|-----|
| 3. Thermal efficiency of the welding process   | 235 |
| 4. Experimental study of the heating process during resistance<br>mash welding of rods | 238 |
| 5. Temperature distribution in the zone near the contact                               | 245 |
| 6. Theoretical investigation of the heating process of bars                            | 260 |
| 7. Analysis of the bar heating process   | 265 |
| 8. Determination of minimum current necessary for welding                              | 269 |
| 9. Determination of current density in the center of the bar                           | 271 |

Conclusions	274
-------------	-----

AVAILABLE: Library of Congress

Card 6/6

VK/rul  
5-8-60



SHRETER, A.I.; PIMENOV, M.G.; VASIL'YEVA, V.P.

Nomenclature, distribution, and resources of Dioscorea in the  
Soviet Far East. *Rast.res.* 1 no.3:390-397 '65.

(MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lekarnykh  
i aromaticeskikh rasteniy, Moskva.

VASIL'YEVA, V. F.

VASIL'YEVA, V. F. "Effect of the Efferent Nerves on Kidney Function." Cand Med Sci,  
Acad Med Sci USSR, 19 Jan 54. ( Vechernyaya Moskva, 8 Jan 54)

SO: SUM 168, 22 July 1954

VASIL'YEVA V. F.

USSR/Human and Animal Physiology. Excretion

T-7

Abs Jour : Med Zhur - Biol., No 14, 1956, No 65333

Author : Ginetzinskiy A.G., Vasil'yeva V.F.

Inst : AN USSR

Title : The Efferent Innervation of the Renal Tubules

Orig Pub : Dokl. AN SSSR, 1956, 111, No 6, 1332-1384

Abstract : In unanesthetized dogs whose ureters were separately exteriorized, epinephrine injected intravenously (in small doses) decreased the rate of urine flow without altering glomerular filtration as a result of increased reabsorption of water in the renal tubules. Electrical stimulation of the nerve fibers accompanying the renal artery in dogs with exteriorized ureters and spinal cord transections at the level of T6-T9 diminished diuresis and glomerular filtration by reducing the blood flow through the glomerular capillaries, while simultaneously increasing the reabsorption of water. The activity of the kidney is regulated, not only hormonally, but also by the impulses entering the renal parenchyma via

Card : 1/1

nervous pathways.

VASIL'YEVA, V.P.

The effect of denervation on kidney function [with summary in English].  
Fiziol. zhur. 44 no.3:236-242 Mr '58. (MIRA 11:4)

1. Kafedra fiziologii Meditsinskogo instituta, Novosibirsk.  
(KIDNEYS, physiology  
funct. in dogs after exper. denervation (Rus)

GINETSINSKIY, A.G., VASIL'YEVA, V.F., ZAKS, M.G., SOKOLOVA, M.M., SOO, V.A.

Method for determining changes in elasticity of the female breast.  
(MIRA 11:10)  
Akush. i gin. 34 no.5:104-106 S-O '58

1. Iz Instituta akusherstva i ginekologii (dir. - chlen-korrespondent  
AMN SSSR P.A. Beloshapko) AMN SSSR i Institut evolyutsionnoy fiziologii  
imeni I.M. Sechenova (dir. - akad. L.A. Orbeli) AN SSSR.  
(BREAST, physiol.  
capacity furot., method of determ. (Rus))

VASIL'YEVA, V.F.

Effect of adenaline on renal function. *Fiziol.zhur.* 44 no.5:  
450-454 My '58 (MIRA 11:6)

1. Kafedra fiziologii Meditsinskogo instituta, Novosibirsk.  
(KIDNEYS, effect of drugs on  
epinephrine (Rus))  
(EPINEPHRINE, effects,  
on kidney funct. (Rus))

VASIL'YEVA, V.F.; LICHKO, A.Ye.; SOKOLOVA, M.M.

Mechanism of controlling insulin coma by intravenous infusions  
of glucose. Biul. eksp. biol. i med. 48 no.9:46-50 S '59. (MIRA 13:1)

1. Iz Instituta evolyutsionnoy fiziologii imeni I.M. Sechenova  
(direktor - akademik L.A. Orbeli [deceased]) AN SSSR, Leningrad.  
Predstavlena akademikom L.A. Orbeli [deceased].

(INSULIN)

(GLUCOSE)

VASIL'YEVA, V.F.

Reaction of kidneys to adrenaline and pituitrin during the early  
postnatal period. Mat. po evol. fiziol. 4:220-223 '60.  
(MIRA 13:10)

(KIDNEYS) (ADRENALINE) (PITUITARY EXTRACT)  
(ANIMALS, INFANCY OF)



GINETSINSKIY, A.G.; VASIL'YEVA, V.F.; NATOCHIN, Yu.V.

Localization of hyaluronidase secretion in the nephron. Dokl. AN  
SSSR 141 no.2:502-504 N '61. (MIRA 14:11)

1. Institut evolyutsionnoy fiziologii im. I.M.Sechenova AN SSSR.  
Predstavleno akademikom V.N.Chernigovskim.  
(HYALURONIDASE) (KIDNEYS)

VASIL'YEVA, V.F.

Excretory function of metanephridia in Lumbricidae. Fiziol.zhur.  
47 no.3:393-397 Mr '61. (MIRA 14:5)

1. From the Sechenov Institute of Evolutional Physiology, Leningrad.  
(EARTHWORMS) (KIDNEYS)

GINETSINSKIY, A.G.; VASIL'YEVA, V.F.

Influence of hyaluronidase inhibitors on diuresis. Biul. eksp.  
biol. i med. 52 no.7:3-5 J1 '61. (MIRA 15:3)

1. Iz laboratorii evolyutsii vydelitel'nykh protsessov (zav.  
- chlen-korrespondent AMN SSSR prof. A.G. Ginetsinskiy)  
Instituta evolyutsionnoy fiziologii imeni I.M. Sechenova  
(direktor - chlen-korrespondent AN SSSR Ye.M. Kreps) AN SSSR,  
Leningrad. Predstavlena deystvitel'nyy chlenom AMN SSSR V.V.  
Parinym.

(DIURETICS AND DIURESIS)  
(HYALURONIDASE) (ASCORBIC ACID) (HEPARIN)

GINETSINSKIY, A.G. [deceased]; VASIL'YEVA, V.F.

Effect of hyaluronidase and its inhibitors on kidney function.  
Fiziol. zhur. 49 no.5:519-524 My '63.

(MIRA 17:11)

1. Institut evolyutsionnoy fiziologii imeni Sechenova AN SSSR,  
Leningrad.

VASIL'YEVA, V.F.

Role of kidneys in the regulation of acid-base equilibrium in  
sea and freshwater fishes. Zhur. evol. biokhim. i fiziol. 1  
no. 6:543-549 N-D '65 (MIRA 19:1)

1. Laboratoriya razvitiya vydelitel'noy funktsii Instituta  
evolutsionnoy fiziologii i biokhimii imeni I.M. Sechenova  
AN SSSR, Leningrad. Submitted June 30, 1965.

494

**AUTHORS:** Yashunskiy, V. G., and Vasilyeva, V. F.

**TITLE:** Syntheses of Cyclopentanonecarboxylic Acids (Sintezy v ryadu tsiklopentanonkarbonovykh kislot)

**PERIODICAL:** Zhurnal Obshchey Khimii, 1957, Vol. 27, No. 1, pp. 273-277 (U.S.S.R.)

**ABSTRACT:** Using diethyl ether of adipic acid as a base and applying the F. Sorm method (3), the authors synthesized a certain ester and condensed it with ethyl ether of gamma-bromovaleric acid. The ketodiester yield was low because of apparent low activity of the bromester. It became possible to attach the side chain to the ester by using ethyl ether of gamma-brom-beta-ethylacrylate in which the Br atom is more mobile due to the presence of the double bond in allyl position. The unsaturated ester was obtained from the reaction of bromsuccinimide with ethyl ether of beta-ethylacrylate in the presence of benzoyl peroxide. Condensation of both esters yielded an unsaturated keto diester which by hydrogenation was converted into another ester and then through saponification and esterification into still another type of ester. The following stage - condensation of this last ester - with cyanacetic acid in the presence of potassium ethylate - produced low yields, probably because of the

Card 1/2

494

Syntheses of Cyclopentanonecarboxylic Acids

sharply reduced reactivity of the keto group of the cyclopentane ring.

The reduced activity of the keto group is explained by the presence in both alpha-carbon atoms of substitutes one of which appeared to be secondary.

There are 8 non-Slavic references.

ASSOCIATION: All-Union Scientific-Research Chemical-Pharmaceutical Institute  
im. S. Ordzhonikidze (Vsesoyuznyy Nauchno-Issledovatel'skiy Khimiko-  
Farmatsevticheskiy Institut im. S. Ordzhonikidze)

PRESENTED BY:

SUBMITTED: January 30, 1956

AVAILABLE:

Card 2/2

VASIL'YEVA, V.F.

Urea excretion in its high content of the blood [with summary in English]. Biol. eksp. biol. 1 med. 44 no.12:31-36 D '57. (MIRA 11:4)

1. Iz kafedry fiziologii (zav. - chlen-korrespondent AMN SSSR A.G. Ginetsinskiy) Novosibirskogo meditsinskogo instituta (dir. - prof. G.D. Zaleskiy). Predstavlena akademikom L.A. Orgel'.  
(UREA, in blood,

relation to urinary content in animals (Rus))



VASIL'YEVA, V.F.; YASHUNSKIY, V.G.

Sulfonation of sydnones. Khim. nauka i prom. 3 no.2:282-283 '58.  
(MIRA 11:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut im. S.Ordzhonikidze.  
(Sydnones) (Sulfonation)

SOV/79-29-8-59/81

5(3)

AUTHORS:

Yashunskiy, V. G., Vasil'yeva, V. F., Tikhonova, L. I.,  
Shchukina, M. N.

TITLE:

Substances With a Complex-forming Capacity. IV. Trans-1,2-di-  
aminocyclohexene- and 1-Phenylethylenediamine-N,N,N',N'-tetra-  
acetic Acids

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 8,  
pp 2709 - 2712 (USSR)

ABSTRACT:

The authors previously reported on the synthesis and inves-  
tigation of the complex-forming capacities of some alicyclic  
1,2-diaminetetraacetic acids of a trans-configuration  
(Refs 1,2). In order to complement this series the compound  
(I) was synthesized. The initial product for the synthesis  
of this compound was the dimethyl ester of the cis-cyclo-  
hexene-(4)-dicarboxylic acid-1,2 obtained by the condensation  
of butadiene with the anhydride of maleic acid. When this  
cis-diester is heated with hydrazine hydrate without solvent  
the trans-dihydrazide forms (Ref 1). The latter was transformed  
according to Curtius into the dichlorohydrate of the hitherto

Card 1/3

Substances With a Complex-forming Capacity. IV.

SOV/79-29-8-59/81

Trans-1,2-diaminocyclohexene- and 1-Phenylethylenediamine-N,N,N',N'-tetraacetic Acids

unknown trans-1,2-diaminocyclohexene-(4) which was treated with an excess of chloroacetic acid in an alkaline medium which led to the compound (I). In order to investigate the influence of the substituents on the complex-forming capacity of the complexons of the ethylenediaminetetraacetic acid series the compound (II) obtained from 1,2-diaminoethylbenzene by two different methods was synthesized (Ref 3, and Rodionov, Ref 4). The tetraacetic acid could only be synthesized by heating 1,2-diaminoethylbenzene with an excess of bromoacetic acid in the presence of caustic soda at 40°. Thus two compounds hitherto not described were synthesized: trans-1,2-diaminocyclohexene-(4)-, and 1-phenylethylenediaminetetraacetic acid. The complex-forming capacity of the synthesized compounds was determined chromatographically (Ref 5) by way of comparison with ethylenediaminetetraacetic acid. By this method it was shown that the new complexons have a complex-forming capacity of the same order as ethylenediaminetetraacetic acid. The table shows the result of these chromatographic determinations.

Card 2/3

Substances With a Complex-forming Capacity. IV.

SOV/79-29-8-59/81

• Trans-1,2-diaminocyclohexene- and 1-Phenylethylenediamine-N,N,N',N'-tetraacetic Acids

The results of the investigation of complexon (II) show that the presence of the phenyl radical beside one of the amino groups of ethylenediaminetetraacetic acid has but little effect upon the complex-forming capacity. There are 1 table and 6 references, 5 of which are Soviet.

SUBMITTED: July 5, 1958

Card 3/3

SOV/79-29-8-60/81

5(3)

AUTHORS:

Yashunskiy, V. G., Vasil'yeva, V. E., Sheynker, Yu. N.

TITLE:

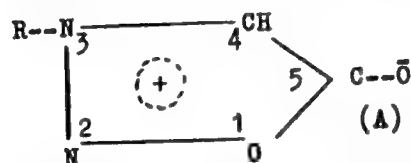
On the Aromatic Properties of Sydnones

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 8, pp 2712-2718 (USSR)

ABSTRACT:

Among the so-called mesoionic compounds the sydnones are of particular interest since they are highly reactive. Of special importance is their capacity of replacing the hydrogen in position 4 (Ref 2), especially by chlorine and bromine (Refs 2, 3).



On the strength of these data it was assumed that the sydnones are of aromatic nature. In the pentacyclic ring there are totally  $7\pi$  electrons in the state  $2p_z$ ; one of them may be given to the exocyclic oxygen atom so that a certain negative charge concentrates on it, while  $6\pi$  electrons remain in the ring which contains a great positive charge. These latter  $6\pi$  electrons form

Card 1/3

On the Aromatic Properties of Sydnones

SOV/79-29-8-60/81

the aromatic system. However, experimental data hitherto obtained do not suffice to confirm this assumption. In this connection the present investigations were carried out. The authors sulphurized a series of sydnones with dioxan-sulphotrioxide in a dichloroethane solution at 20-40°. The reaction took place with the 3-phenyl-, 3-(p-methoxyphenyl)-, 3-(n-ethoxyphenyl)-, 3-(m-chlorophenyl)-, and 3-ethylsydnone. The three latter compounds have hitherto been unknown. They were obtained by reaction of the corresponding N-nitroso- $\alpha$ -amino acids with the anhydride of acetic acid. The treatment of the reaction mass after sulphurization was the usual one. The sulphonic acids were separated out in the form of their barium salts from which the benzylthiuronium derivatives of the acids were prepared. The second reaction characteristic of aromatic compounds which was carried out here was the mercurization reaction. During the treatment of the aqueous-alcoholic solution of the 3-phenylsydnone with  $HgCl_2$  two compounds were separated:

4-chloro-(3-phenylsydnone)-mercury and di-4-(3-phenylsydnone)-mercury. During the mercurization of the 3-phenylsydnone with mercury acetate a considerable quantity of 4-acetatemercury-3-phenylsydnone was separated which was then transformed,

Card 2/3

the Aromatic Properties of Sydnones

SOV/79-29-8-60/81

with salt solution, into the chloromercurysydnone and its symmetric derivative. The easiness with which the hydrogen atom in the sydnones can be replaced by the sulpho group and mercury thus confirms the aromatic nature of these compounds. Another factor which indicates an aromatic character are the infrared absorption spectra of the sydnones. The presence of the spectral bands corresponding to the carbonyl group is therefore not in agreement with the structural formula of the sydnones hitherto assumed. There are 1 figure and 7 references, 1 of which is Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze (All-Union Scientific Chemo-pharmaceutical Research Institute imeni S. Ordzhonikidze)

SUBMITTED: July 5, 1958

Card 3/3

5.3400

U.S.S.R.  
Soviet Union

AUTHORS: Vasil'yeva, V. F., Yashunskiy, V. G., Shekuzina, M. N.

TITLE: Letters to the Editor. Concerning the Reaction of Sydnones With Derivatives of  $\alpha, \beta$ -Unsaturated Acids

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol 30, No 2, p 693 (USSR)

ABSTRACT: Sydnones on heating with nitriles and esters of  $\alpha, \beta$ -unsaturated acids undergo cleavage and yield derivatives of pyrazoline and pyrrole, accompanied by evolution of the carbon dioxide, while the reaction of sydnones with unsaturated esters yields esters of substituted pyrrolidene-carboxylic acids, the reaction of sydnones with nitriles yields only substituted pyrroles. In both cases, probably, the formation of esters or nitriles of substituted pyrrolidene-carboxylic acids takes place. However, the exact mechanism

Card 1/3





Letters to the Editor. Concerning the  
Reaction of Sydnones With Derivatives  
of  $\alpha$ ,  $\beta$ -Unsaturated Acids

77924  
SOV/79-30-2-75/10

ASSOCIATION: S. Ordzhonikidze All-Union Scientific Research Chemical  
and Pharmaceutical Institute (Vsesoyuznyy nauchno-  
issledovatel'skiy khimiko-farmatsevticheskiy institut  
imeni S. Ordzhonikidze)

SUBMITTED: October 26, 1959

Card 3/3

YASHINSKIY, V.G.; VASIL'YEVA, V.F.

Synthesis of 3-isopropyl- and 3-phenylisopropylsydnones and of the  
corresponding substituted hydrazines. Zhur.ob.khim. 30  
no.8:2754-2756 Ag '60. (MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut imeni S.Ordzhonikidze.  
(Sydnones) (Hydrazine)

VASIL'YEVA, V.F.; YASHUNSKIY, V.G.; SHCHUKINA, M.N.

Formation of substituted pyrazoles in the reaction of sydnones with  
 $\alpha, \beta$ -unsaturated nitriles. Zhur.ob.khim. 31 no.5:1501-1504 My  
'61. (MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut imeni S.Ordzhonikidze.  
(Pyrazole) (Nitrile) (Sydnone)

YASHUNSKIY, V.G.; VASIL'YEVA, V.F.; SHCHUKINA, M.N.

Reactions of sydnones with unsaturated compounds. Zhur.cb.khim.  
32 no.9:3107 S '62. (MIRA 15:9)  
(Sydnone) (Unsaturated compounds)

VASIL'YEVA, V.F.; YASHUNSKIY, V.G.

Sydnones and sydnone imines. Part 13: Interaction of 3-methyl-  
and 3-ethysydnones with methyl ester of acrylic acid. Zhur.ob.khim.  
32 no.9:2888-2893 S '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut imeni S. Ordzhonikidze.  
(Sydnone) (Acrylic acid)

YASHUNSKIY, V.G.; VASIL'YEVA, V.F.; KHOLODOV, L.Ye.; SHCHUKINA, M.N.

Sydnones and sydnone imines. Part 8: Polymethylene-bis-3-sydnone  
imines. Zhur. ob. khim. 32 no.1:192-195 Ja '62. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut imeni S.Ordzhonikidze,  
(Sydnone imine)

VASIL'YEVA, V.F.; YASHUNSKIY, V.G.; SHCHUKINA, M.N.

Sydnones and sydnone imines. Part 10: Reaction of 3-phenyl-  
and 3-phenyl-4-methylsydnones with methyl acrylate. Zhur.ob.  
khim. 32 no.5:1446-1451 My '62. (MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut imeni S.Ordzhonikidze.  
(Sydnone) (Acrylic acid)



VASIL'YEVA, V.F.; YASHUNSKIY, V.G.

Interaction of N-acyl derivatives of sydnone imines with acrylonitrile.  
Zhur.ob.khim. 34 no.2:702-703 P '64. (MIRA 17:3)

1..Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut imeni S.Otdzhonikidze.

VASIL'YEVA, V. F.; YASHUNSKIY, V. G.

Sydnones and sydnone imines. Part 22: Reaction of vinyl ethers  
with 3-phenylsydnone. Zhur. ob. Khim. 34 no.6:2059-2061 Je '64.  
(MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farfatseyskiy  
institut imeni S. Ordzhonikidze.

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
VASIL'YEVA V.G.										PROCESS AND PROPERTIES INDEX									
BC										1-3									
<p>Study of the structure of polymerides of chloroprene by cannalysis and oxidation by nitric acid. I. A. L. KILNABSKI and V. G. VASIL'YEVA. J. Gen. Chem. Russ., 1986, 6, 358-369. —The oximide of <math>\alpha</math>-polychloroprene gives succinic acid (I) in 82-83% yield when treated with 30% <math>H_2O_2</math> at 100°; substitution of <math>H_2O_2</math> on aq. suspension of <math>NaOCl</math>, or 3% <math>HCl</math> in <math>MeOH</math> for <math>H_2O_2</math>, leads to formation of tarry products. The oximides of the <math>\mu</math>- and <math>\alpha</math>-polymerides yield (I) in 87-90% yield when heated with <math>H_2O</math> at 100°. R. T.</p>																			
ASB-55A METALLURGICAL LITERATURE CLASSIFICATION																			
SOURCE #1										SOURCE #2									
1 2 3 4 5 6 7 8 9 10										11 12 13 14 15 16 17 18 19 20									
11 12 13 14 15 16 17 18 19 20										21 22 23 24 25 26 27 28 29 30									

VASIL'YEVA, V. G.: Master Med Sci (diss) -- "The effect of vitamin E on the development of the mammary gland". Khar'kov, 1958. 12 pp (Khar'kov Med Inst), 200 copies (KL, No 11, 1959, 122)

VASIL'YEVA, V.I.

Comparative indicators of vaccinal immunity in the use of  
live and inactivated vaccines against poliomyelitis. Trudy  
Mosk. nauch.-issl. inst. virus. prep. 2:192-195 '61.  
(MIRA 17:1)

VASIL'YEVA, V.I.

Immunological activity of the poliomyelitis antigen in associated  
pertussis-poliomyelitis vaccine. Vop. virus. 5 no. 6:731-735  
N-D '60. (MIRA 14:4)

1. Moskovskiy nauchno-issledovatel'skiy institut virusnykh  
preparatov.

(POLIOMYELITIS) (WHOOPING COUGH) (VACCINES)

VASIL'YEVA, V.I.

Comparative immunological indices following use of inactivated,  
live, and associated vaccines against poliomyelitis. Zhur. mikrobiol.  
epid. i immun. 31 no.2:44-50 D '60. (MIRA 14:6)

1. Iz Moskovskogo instituta virusnykh preparatov.  
(POLIOMYELITIS VACCINE)

VASIL'YEVA, V.I.

Immunological shifts in relation to poliomyelitis in persons  
vaccinated with a polyvalent whooping cough and poliomyelitis  
vaccine. Trudy Mosk. nauch.-issl. inst. virus. prep. 2:201-  
205 '61. (MIRA 17:1)



GAYLOMSKAYA, I.N., kand med.nauk; VASIL'YEVA, V.I., kand.med.nauk

Diseases caused by enteroviruses. Med. sestra 22 no.5:23-27  
My '63. (MIRA 16:8)

1. Iz Instituta virusologii AMN SSSR imeni D.I.Ivanovskogo  
(INTESTINES—MICROBIOLOGY)  
(VIRUS DISEASES)

VASILYEV, V.I. (Kiyev); SHAYMET, G.F. (Kiyev)

Incidence of Influenza in Kiev and Chernigov Provinces in 1958-1959.  
Sbor.nauch.trud. Inst.tsf .bol. no.419-45 '62. (MIRA 1816)

SHERSHEN', Aleksandr Ignat'yevich [deceased]; GORDON, G.G., retsenezent, red.;  
KUCHKO, A.S., kand.tekhn.nauk, retsenezent; VASIL'YEVA, V.I., red.  
izd-va; BOTVINKO, M.V., tekhn.red.

[Aerial photography] Aerofotos'emka. Moskva, Izd-vo geodez. lit-ry,  
1958. 334 p. (MIRA 12:2)

1. Glavnyy konstruktor NIEM Tsentral'nogo nauchno-issledovatel'skogo  
instituta geodezii, aerofotom i kartografii (for Gordon).  
(Photography, Aerial)

SERGEYEV, Ye.M., doktor geol.-min. nauk, prof., otv. red.; ASKALONOV, V.V., doktor geol.-min. nauk, red.; BEZRUK, V.M., doktor geol.-min. nauk, prof., red.; MOROZOV, S.S., doktor geol.-min. nauk, prof., red.; RZHANITSYN, B.A., doktor tekhn. nauk, prof., red.; VASIL'YEVA, V.I., red.; GEORGIYEVA, G.I., tekhn. red.

[Proceedings of the Conference on the Theoretical Bases of the Technical Improvement of Soils] Trudy Soveshchaniia po teoreticheskim osnovam tekhnicheskoi melioratsii gruntov. Moscow, 1960. Otvet. red. E.M.Sergeev. Moskva, Izd-vo Mosk. univ., 1961. 466 p. (MIRA 14:10)

1. Soveshchaniye po teoreticheskim osnovam tekhnicheskoy melioratsii gruntov. Moscow, 1960. 2. Moskovskiy gosudarstvennyy universitet (for Sergeyev, Morozov). 3. Nauchno-issledovatel'skiy institut osnovaniy i podzemnykh sooruzheniy Akademii stroitel'stva i arkhitektury SSSR, Moskva (for Askalonov, Rzhnitsyn). 4. Gosudarstvennyy vsesoyuznyy dorozhnyy nauchno-issledovatel'skiy institut, Moskva (for Bezruk). (Soil mechanics)